

No. **2nd and Part Bill**

(For Other Works)

Date.....20....

Division:- Byatarayanapura Division

Sub-Division:- Byatarayanapura Sub-Division

Estimate Cost (Rs.): - 245.00 Lakhs

Bill Received No .....Dated.....Cash Book Voucher No.....dated.....

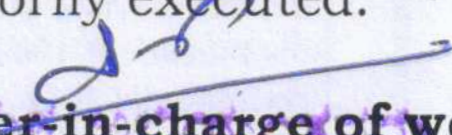
Scheduled Docket No: Head of Account: **P-3111 SFC untied grant works** D.R. No:Name of Work (as per sanctioned):- **[Package-2, includes 5 works of Rs.245.00 lakhs]**

(1).Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No:06,Byatarayanapura Sub Division. (2).Improvements to Drains and Asphaltting to Roads at Balaji layout Near Railway Gate in Ward No:06 Byatarayanapura Sub Division. (3).Improvements to Drains and Asphaltting to Roads at Vidyasagara Layout and Surrounding area in Ward No: 06 Byatarayanapura Sub Division. (4).Improvements to Drains and Asphaltting to Roads at Bharathnagara saw mill Road in Ward No: 06 Byatarayanapura Sub Division. (5).Improvements to Drains and Asphaltting to Roads at Shiradi Sai Nagar and Hegadenagar in Ward No:06 Byatarayanapura Sub Division.

Job Code:- 006-18-000058, 006-18-000060, 006-18-000061, 006-18-000062, 006-18-000063

Name of Contractor and Full Address: **Sri.G.Venatesh, HAL 2<sup>nd</sup> stage, Indiranagara, Bangalore.**Reference to Agreement No / **WO No: BBMP/EE/BTP/ WO/10/2018-19,** Dt:-**25-06-2018.**

Certified that the measurements were taken by me on 18.10.2018 and recorded of Pages No. 425362 to 425374 of measurement Book No: 4254/17-18 and that the work is satisfactorily executed.

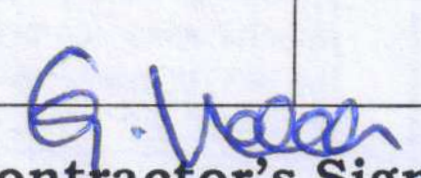
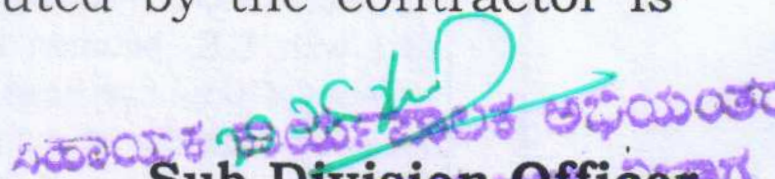
  
Signature of Contractor  
Officer-in-charge of work

Certified that the measurements were taken by me on 18.10.2018 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

If Memorandum of Payment

|    |                                                                                                                 |  |
|----|-----------------------------------------------------------------------------------------------------------------|--|
| 1) | Total value of work done or supplies made as per account within                                                 |  |
| 2) | Deduct amount to be held in reserve being.....percent Rs.....                                                   |  |
| 3) | Balance                                                                                                         |  |
| 4) | Deduct Payment :                                                                                                |  |
| a) | Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D No.....-                     |  |
|    | Amount adjusted towards cash advance recovery of                                                                |  |
| b) | Payments cost store or other materials supplied.                                                                |  |
|    | Now made recovery of amount creditable to this/other work Amount paid                                           |  |
|    | On this bill Cheque/Cash s bill Cheque/Cash                                                                     |  |
| 5) | Balance being unpaid value of work done held in reserve                                                         |  |
| 6) | Deduct cash advance made on the office Cash Book Voucher No..... date .....less adjustments                     |  |
| 7) | Net amount due to or from contractor Unadjusted items                                                           |  |
| 8) | Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied |  |

  
Contractor's Signature  
Sub-Division Officer

Received Rs.....(in works)

By Cash and by adjustment of Payment as per memorandum.

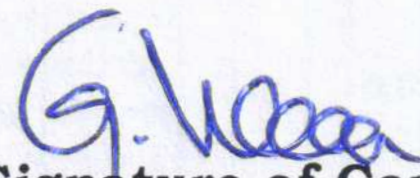
Witnesses:

(For use in the Office)

1.

2.

Dated.....

  
Signature of Contractor

Paid by me by cheque No..... Dated.....

Cash Rs..... Dated.....

Initials of Officer Making Payment

Executive Engineer

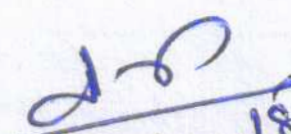
| Sl. No | Items of work (grouped under sub-heads the sub-works of the estimate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit | Previous |            | Present Measurement |         |            | Total up-to-date |            | Rmks |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------------|---------------------|---------|------------|------------------|------------|------|
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      | Qty      | Amount     | Qty                 | Rate    | Amount     | Qty              | Amount     |      |
| 1      | KSRRB M300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No. 133, I.No. 19.1 of PW, P&IWD SR 2016-17).                                                                                                                                                                                              | Cum  | 1613.89  | 307446.00  | 1614.13             | 190.50  | 307492.00  | 3228.02          | 614938.00  |      |
| 2      | Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete 5.31.1).                                                                                                                                                                                                                                                                                                                                                                                                 | Sqm  | 2312.88  | 1716735.00 | 931.50              | 742.25  | 691406.00  | 3244.38          | 2408141.00 |      |
| 3      | KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 (P.No. 142, I.No. 19.14 of PW, P&IWD SR 2016-17).                                                                                                                            | Cum  | 855.79   | 126657.00  | 992.70              | 148.00  | 146920.00  | 1848.49          | 273577.00  |      |
| 4      | KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No. 157, I.No. 20.18 of PW, P&IWD SR 2016-17).                                                         | Cum  | 855.79   | 1694464.00 | 763.99              | 1980.00 | 1512700.00 | 1619.78          | 3207164.00 |      |
| 5      | KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 (P.No. 160, I.No. 21.6 of PW, P&IWD SR 2016-17).                                                                                                                                                                                                                   | Sqm  | 1952.57  | 60042.00   | 3321.70             | 30.75   | 102142.00  | 5274.27          | 162184.00  |      |
| 6      | KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (P.No. 160, I.No. 21.2 of PW, P&IWD SR 2016-17).                                                                                                                                                                                                                            | Sqm  | 10918.29 | 38214.00   | 8237.81             | 3.50    | 28832.00   | 19156.10         | 67046.00   |      |
| 7      | KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface ) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 (P.No. 160, I.No. 21.7 of PW, P&IWD SR 2016-17).                                                                                                                                                                             | Sqm  | 10918.29 | 141938.00  | 8237.81             | 13.00   | 107092.00  | 19156.10         | 249030.00  |      |
| 8      | KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density as per MORT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509(P.No. 164, I.No. 21.22.6 of PW, P&IWD SR 2016-17). | Cum  | 436.73   | 3465453.00 | 329.51              | 7935.00 | 2614662.00 | 766.24           | 6080115.00 |      |

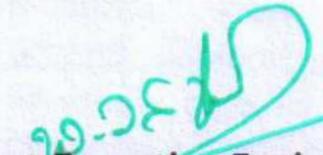
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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-----------|---------------------|----------|------------|---------|------------|--|
| 9  | KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No. 197, I.No. 24.15 of PW, P&IWTD SR 2016-17).                                                                                                                                                                                                                                                                                                                                                                                                                 | Sqm   | 389.96 | 235926.00 | 0.00                | 605.00   | 0.00       | 389.96  | 235926.00  |  |
| 10 | KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200mm having block density not less than 1800kg/m <sup>3</sup> and having a minimum average compressive strength 4.00 N/mm <sup>2</sup> confirming to IS 2185 (part) : 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing complete as per specifications. KBS No.5.4(5.26.1).                                                                                                                                                                                                                                                                                                                                                                                    | Sqm   | 0.00   | 0.00      | 0.00                | 1107.00  | 0.00       | 0.00    | 0.00       |  |
| 11 | KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square/rectangular/polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.No. 16, I.No.4.32 of PW, P&IWTD SR 2016-17).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sqm   | 0.00   | 0.00      | Upto 125% 329.88    | 432.50   | 142673.00  | 2014.11 | 867835.00  |  |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |        |           | Beyond 125% 1684.22 | 430.56   | 725162.00  |         |            |  |
| 12 | KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillers, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6(P.No. 13, I.No.4.11 of PW, P&IWTD SR 2016-17). | cum   | 0.00   | 0.00      | Upto 125% 71.66     | 6992.50  | 501083.00  | 270.93  | 1910189.00 |  |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |        |           | Beyond 125% 199.27  | 7071.34  | 1409106.00 |         |            |  |
| 13 | KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (P.No. 17, I.No. 4.46.3 of PW, P&IWTD SR 2016-17).                                                                                                                                                                                                                                                                                                                          | Tonne | 0.00   | 0.00      | Upto 125% 3.59      | 74925.00 | 268981.00  | 15.81   | 1158268.00 |  |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |        |           | Beyond 125% 12.47   | 71298.07 | 889287.00  |         |            |  |
| 14 | KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No. 12, I.No. 4.2 of CSR 2015-16).                                                                                                                                                                                                                                                                                                                                                                                | Cum   | 0.00   | 0.00      | Upto 125% 286.36    | 5883.75  | 1684871.00 | 308.12  | 1814041.00 |  |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |        |           | Beyond 125% 21.76   | 5936.11  | 129170.00  |         |            |  |

|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |            |         |         |             |         |             |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------------|---------|---------|-------------|---------|-------------|
| 15                                                                                                                 | Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30, with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) (22.2.66). | Cum | 0.00 | 0.00       | 114.36  | 6059.75 | 692993.00   | 114.36  | 692993.00   |
| 16                                                                                                                 | Vaccum de-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, screed vibratory, power floater, blade and disc etc., with all lead and lift. (22.7).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sqm | 0.00 | 0.00       | 1393.80 | 106.25  | 148091.00   | 1393.80 | 148091.00   |
| E<br>I<br>R<br>L<br>1                                                                                              | EIRL-1. KSRRB M300- Construction of embankment with material Gravel/Murum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (Including cost of gravel/murum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No.305 (P.No. 147/ I.No. 19.60 of CSR 2016-17).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cum | 0.00 | 0.00       | 994.38  | 382.33  | 380181.00   | 994.38  | 380181.00   |
| Total:-                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      | 7786875.00 |         |         | 12482844.00 |         | 20269719.00 |
| 2nd & Part Bill Amount:- Rupees One Crore Twenty Four Lakhs Eighty Two Thousand Eight Hundred and Forty Four Only. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |            |         |         |             |         |             |

**CERTIFICATE :-**

1. Certified that the work done is satisfactory.
2. There is no departmental issues by B.B.M.P.
3. All the debris have been cleared from the work spots by Agency.

  
 Asst. Engineer  
 Ward No.06, BBMP  
 ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

  
 Asst. Executive Engineer  
 Byatarayanapura Sub-division  
 ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24